JOURNAL OF MOLECULAR LIQUIDS

Contents of Volume 40

^{13}C-dipole dipole relaxation time and internal motions of oligo cyclicethers and ether-esters. Part IV. The mechanism and activation energies of the ring pseudorotation of 15.crown.5, 18.crown.6 and 2,6-dioxo-18.crown.6
C. Erk (Diyarbakir, Turkey) 1

Interaction of acridine orange with various ligands
O. Ortona, L. Costantino and V. Vitagliano (Napoli, Italy) 17

NMR and INDO study of Ni(II) complexes of acetic and propionic acid
M. Casu, A. Lai, C. Meloni and G. Saba (Cagliari, Italy) 25

Fast dynamic Kerr-effect of bovine serum albumine in solution
D. Bourret (Montpellier, France) 37

Relaxation time and viscosity of several n-alcohol/heptane systems
C. Magallanes, A. Catenaccio and H. Mechetti (San Luis, Argentina) 53

Effects of site-binding and field-dependent permittivity in polyelectrolyte solutions
M. Parodi (Cagliari, Italy), M. Tortonese and A. Morro (Genova, Italy) 65

Anisometric molecules in dense fluids. VII. Moyennes des harmoniques sphériques d'orientation sous fort champ électrique. Application à la EF-NMR
C. Brot (Nice, France) 79

On the absence of sample size effects in the computation of cross-correlation functions in liquid water
M.W. Evans, G.C. Lie and E. Clementi (Kingston, NY, U.S.A.) 89

Does arachidonic acid exist in a well defined tertiary structure?
H. Sterk, R. Konrat and H. Hönig (Graz, Austria) 101

Temperature dependence of the static electric permittivity for trichloroacetonitrile and trimethylsilane carbonitrile
M. Pajdowska and G. Bator (Wroclaw, Poland) 117

Vibrational relaxation in CHBrClF
A.F.T. Chen, A.A. Rodriguez and M. Schwartz (Denton, TX, U.S.A.) 127

Nuclear relaxation, molecular motions and interactions. Part III. ^{14}N Nuclear quadrupole relaxation times from ^{1}H line-shape analysis, and viscosity measurements of solutions of pyrrole in acetonitrile, tetrachloroethylene, and N,N-dimethylacetamide
H.M. Ratajczak (Wroclaw, Poland) and J.A. Ladd (Salford, Gt. Britain) 135

Host–guest interaction mechanisms with ^{13}C dipole–dipole relaxation time measurements. Part V. Equilibrium constants of potassium and sodium acetates complexing with 18.Crown.6 in CH_3OD
C. Erk (Diyarbakir, Turkey) 143

Molecular association of pentanols in n-heptane. III. Temperature and concentration dependence of proton NMR chemical shift of hydroxyl group
M. Rappon and R.M. Johns (Thunder Bay, Ont., Canada) 155

Book Review 181

Dielectric relaxation of benzophenone and some of its derivatives in the liquid state. Part III: 4-hydroxybenzophenone, 2,4-dihydroxybenzophenone and p-rosolic acid in propylenecarbonate solution
L. Wodniok, M. Stockhausen and M. Rohmann (Münster, F.R.G.) 185

Investigation of infinitely diluted solutions of organic compounds in tetrachloromethane using the Monte Carlo method
I.I. Sheykhet, V.N. Levchuk and B. Ya. Simkin (Rostov-on-Don, U.S.S.R.) 191

Effect of the boundary conditions in the Monte Carlo method on energy and structure characteristics of liquids. A calculation on aqueous solutions of methanol and benzene
I.I. Sheykhet, B. Ya. Simkin and V.N. Levchuk (Rostov-on-Don, U.S.S.R.) 211

Spin–lattice relaxation in some quinone–chloroform solutions
F. Tabak (Beytepe, Ankara, Turkey) 225
Dielectric relaxation in mono alkyl ethers of diethylene glycol at microwave frequencies
H.D. Purohit and R.J. Sengwa (Jodhpur, India) 237
Birefringence effects induced by optical saturation, dispersion effects in the far infra-red
M.W. Evans, G.C. Lie and E. Clementi (Kingston, NY, U.S.A.) 251
The nature of glass transition process in alcohols
S.S.N. Murthy (Bangalore, India) 261
Symmetry effects of electric and magnetic fields in liquid state molecular dynamics
M.W. Evans (Lancaster, U.K.) 277
Translational anisotropy induced by a circularly polarised laser field applied to liquid water
M.W. Evans, G.C. Lie and E. Clementi (Kingston, NY, U.S.A.) 285
On the material frame indifference controversy: some results from group theory and computer simulation
M.W. Evans and D.M. Heyes (Egham, U.K.) 297
A local mode analysis of the stretching mode spectra of liquid H_2O and D_2O in the temperature range 4 – 200°C
B. Gellai (Budapest, Hungary) 305

Contents of Volume 40 327